Filed: May 25, 1995
Application No.: 08/452,658
Agent:: Bhavana Joneja (Reg. No. 47,689)
For: DNA SEQUENCES, RECOMBINANT DNA MOLECULES AND PROCESS FOR PRODUCING HUMAN FIBROBLAST INTERFERON-LIKE POLYPEPTIDES
Docket No. B8/B8 CIP DIV4
Conf. No. 5499
Express Mail EV132183926US

FIG. 1

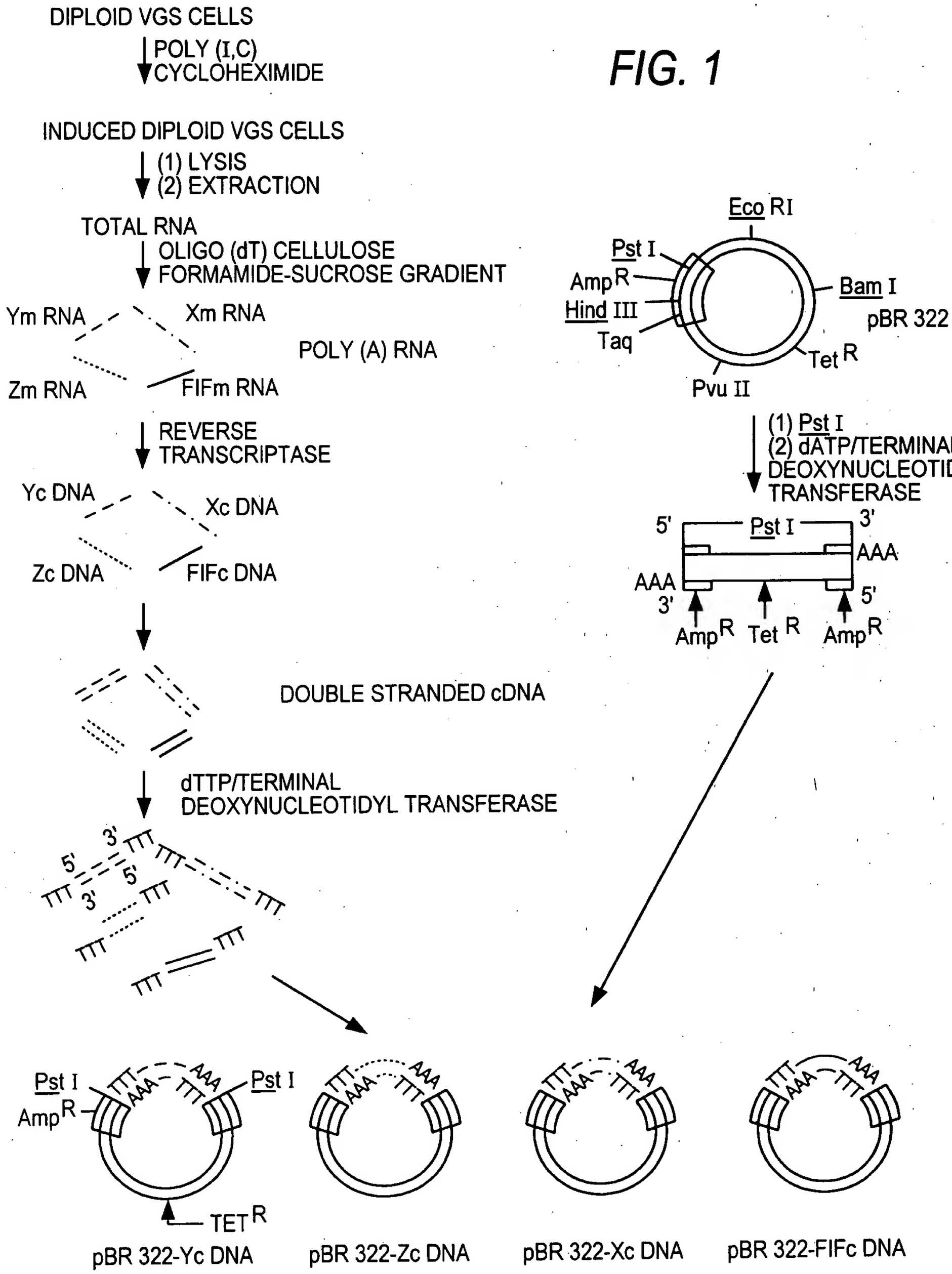

FIG. 2

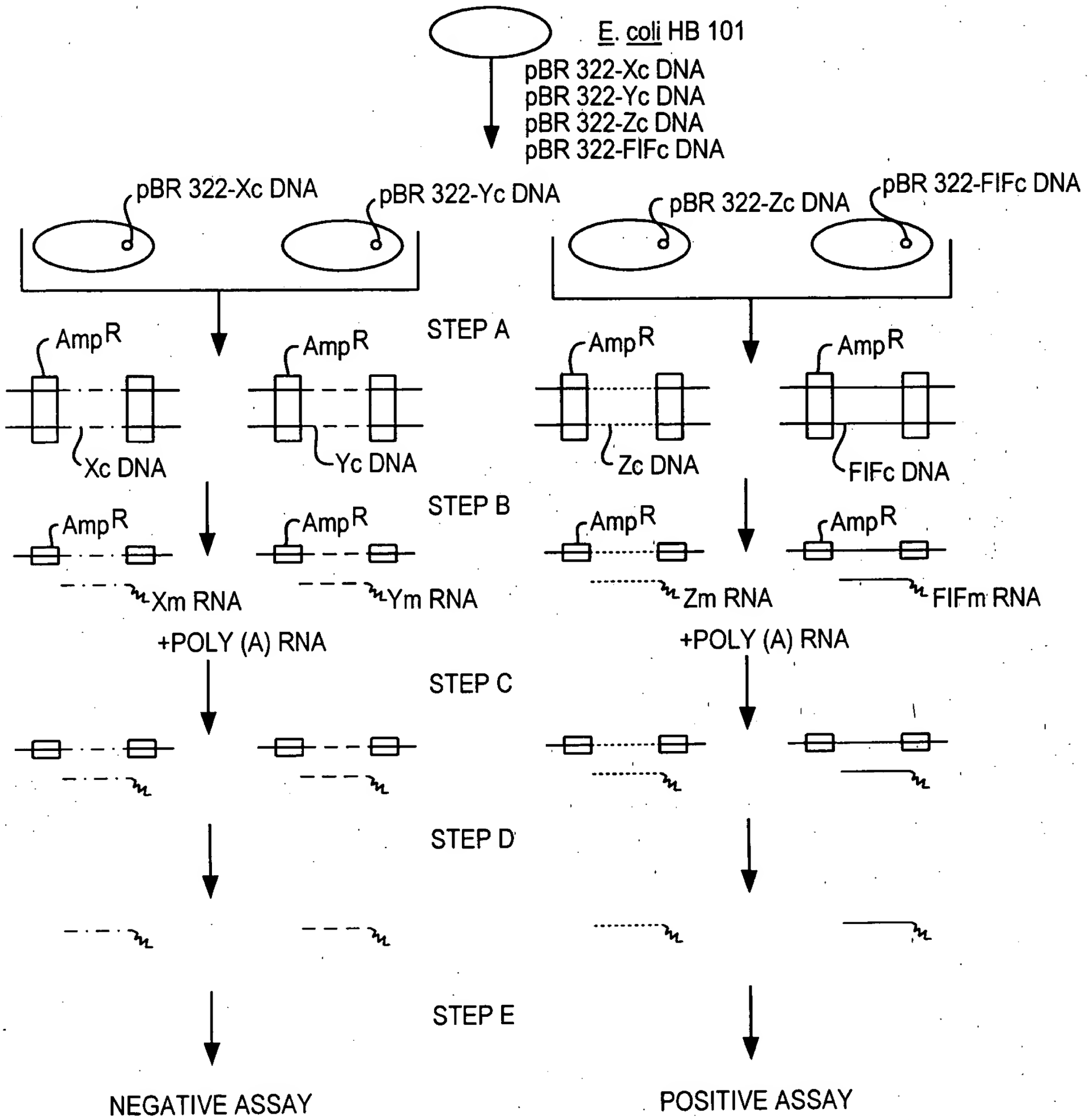

FIG. 3

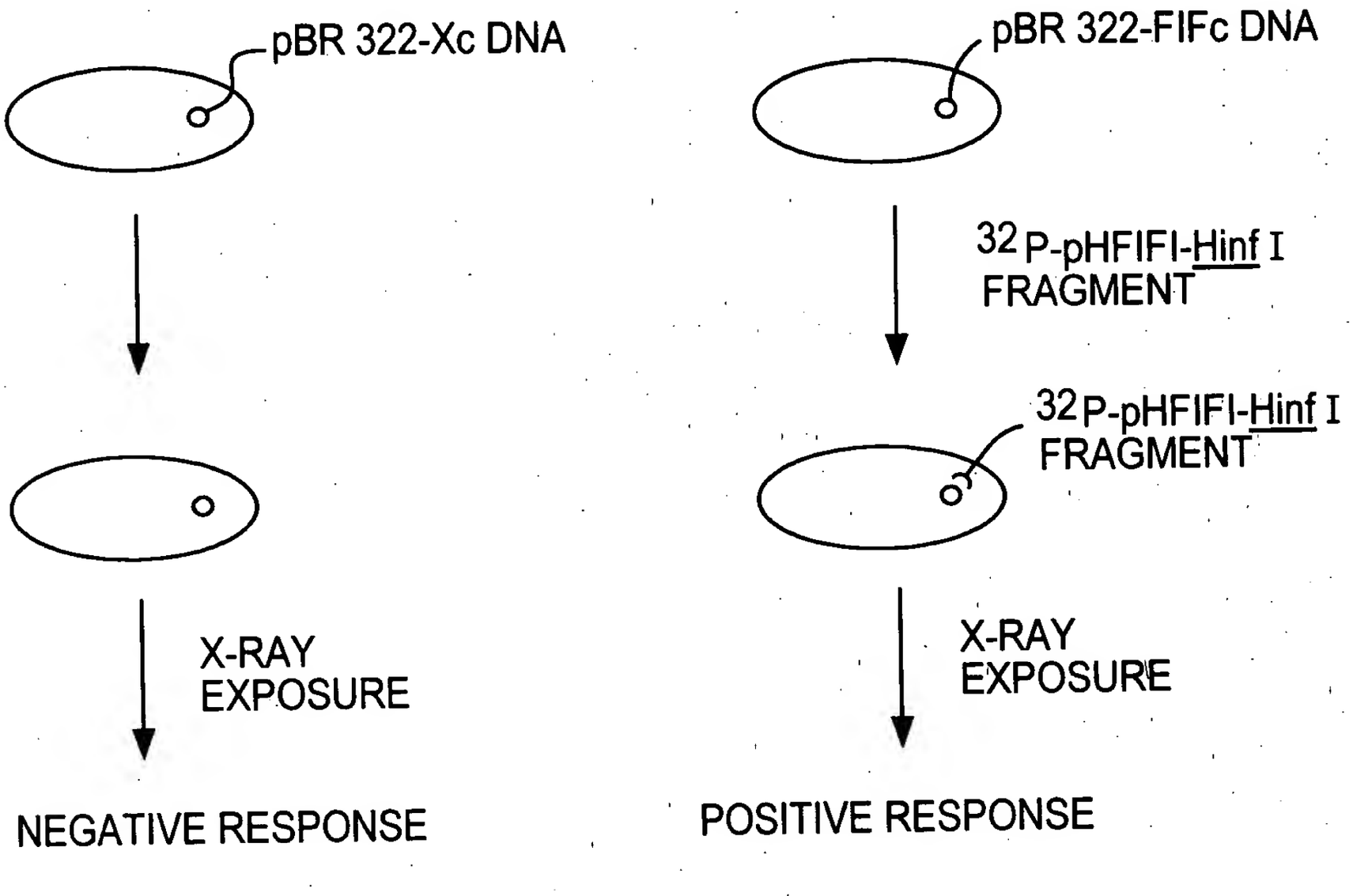

FIG. 4

```
                                                                -20                                         -10
                                                                MET-THR-ASN-LYS-CYS-LEU-LEU-GLN-ILE-ALA-LEU-LEU-
GCAA CCTTTCGAAG CCTTTGCTC  GGCACAACAG GTAGTAGGCG ACACTGTTCG TGTTGTTGAC ATG,ACC,AAC,AAG,TGT,CTC,CTC,CAA,ATT,GCT,CTC,CTG,100

                                 -1  +1                                  10                                      20
LEU-CYS-PHE-SER-THR-THR-ALA-LEU-SER-MET-SER-TYR-ASN-LEU-LEU-GLY-PHE-LEU-GLN-ARG-SER-SER-ASN-PHE-GLN-CYS-GLN-LYS-LEU-LEU-
TTG,TGC,TTC,TCC,ACT,ACA,GCT,CTT,TCC,ATG,AGC,TAC,AAC,TTG,CTT,GGA,TTC,CTA,CAA,AGA,AGC,AGC,AAT,TTT,CAG,TGT,CAG,AAG,CTC,CTG,190

                                 30                                      40                                      50
TRP-GLN-LEU-ASN-GLY-ARG-LEU-GLU-TYR-CYS-LEU-LYS-ASP-ARG-MET-ASN-PHE-ASP-ILE-PRO-GLU-GLU-ILE-LYS-GLN-LEU-GLN-GLN-PHE-GLN-
TGG,CAA,TTG,AAT,GGG,AGG,CTT,GAA,TAC,TGC,CTC,AAG,GAC,AGG,ATG,AAC,TTT,GAC,ATC,CCT,GAG,GAG,ATT,AAG,CAG,CTG,CAG,CAG,TTC,CAG,280

                                 60                                      70                                      80
LYS-GLU-ASP-ALA-ALA-LEU-THR-ILE-TYR-GLU-MET-LEU-GLN-ASN-ILE-PHE-ALA-ILE-PHE-ARG-GLN-ASP-SER-SER-SER-THR-GLY-TRP-ASN-GLU-
AAG,GAG,GAC,GCC,GCA,TTG,ACC,ATC,TAT,GAG,ATG,CTC,CAG,AAC,ATC,TTT,GCT,ATT,TTC,AGA,CAA,GAT,TCA,TCT,AGC,ACT,GGC,TGG,AAT,GAG,370

                                 90                                      100                                     110
THR-ILE-VAL-GLU-ASN-LEU-LEU-ALA-ASN-VAL-TYR-HIS-GLN-ILE-ASN-HIS-LEU-LYS-THR-VAL-LEU-GLU-GLU-LYS-LEU-GLU-LYS-GLU-ASP-PHE-
ACT,ATT,GTT,GAG,AAC,CTC,CTG,GCT,AAT,GTC,TAT,CAT,CAG,ATA,AAC,CAT,CTG,AAG,ACA,GTC,CTG,GAA,GAA,AAA,CTG,GAG,AAA,GAA,GAT,TTC,460

                                 120                                     130                                     140
THR-ARG-GLY-LYS-LEU-MET-SER-SER-LEU-HIS-LEU-LYS-ARG-TYR-TYR-GLY-ARG-ILE-LEU-HIS-TYR-LEU-LYS-ALA-LYS-GLU-TYR-SER-HIS-CYS-
ACC,AGG,GGA,AAA,CTC,ATG,AGC,AGT,CTG,CAC,CTG,AAA,AGA,TAT,TAT,GGG,AGG,ATT,CTG,CAT,TAC,CTG,AAG,GCC,AAG,GAG,TAC,AGT,CAC,TGT,550

                                 150                                     160
ALA-TRP-THR-ILE-VAL-ARG-VAL-GLU-ILE-LEU-ARG-ASN-PHE-TYR-PHE-ILE-ASN-ARG-LEU-THR-GLY-TYR-LEU-ARG-ASN
GCC,TGG,ACC,ATA,GTC,AGA,GTG,GAA,ATC,CTA,AGG,AAC,TTT,TAC,TTC,ATT,AAC,AGA,CTT,ACA,GGT,TAC,CTC,CGA,AAC,TGA AGATCTCCTA GCCTG643

TGCCT CTGGGACTGG ACAATTGCTT CAAGCATTCT TCAACCAGCA GATGCTGTTT AAGTGACTGA TGGCTAATGT ACTGCATATG AAAGGACACT AGAAGATTTT GAAAT753

TTTTA TTAAATTATG AGTTATTTTT ATTTATTTAA ATTTTATTTT GGAAAATAAATTATTTTTGG TGCAAAAGTC AAAAAAAAAn ...
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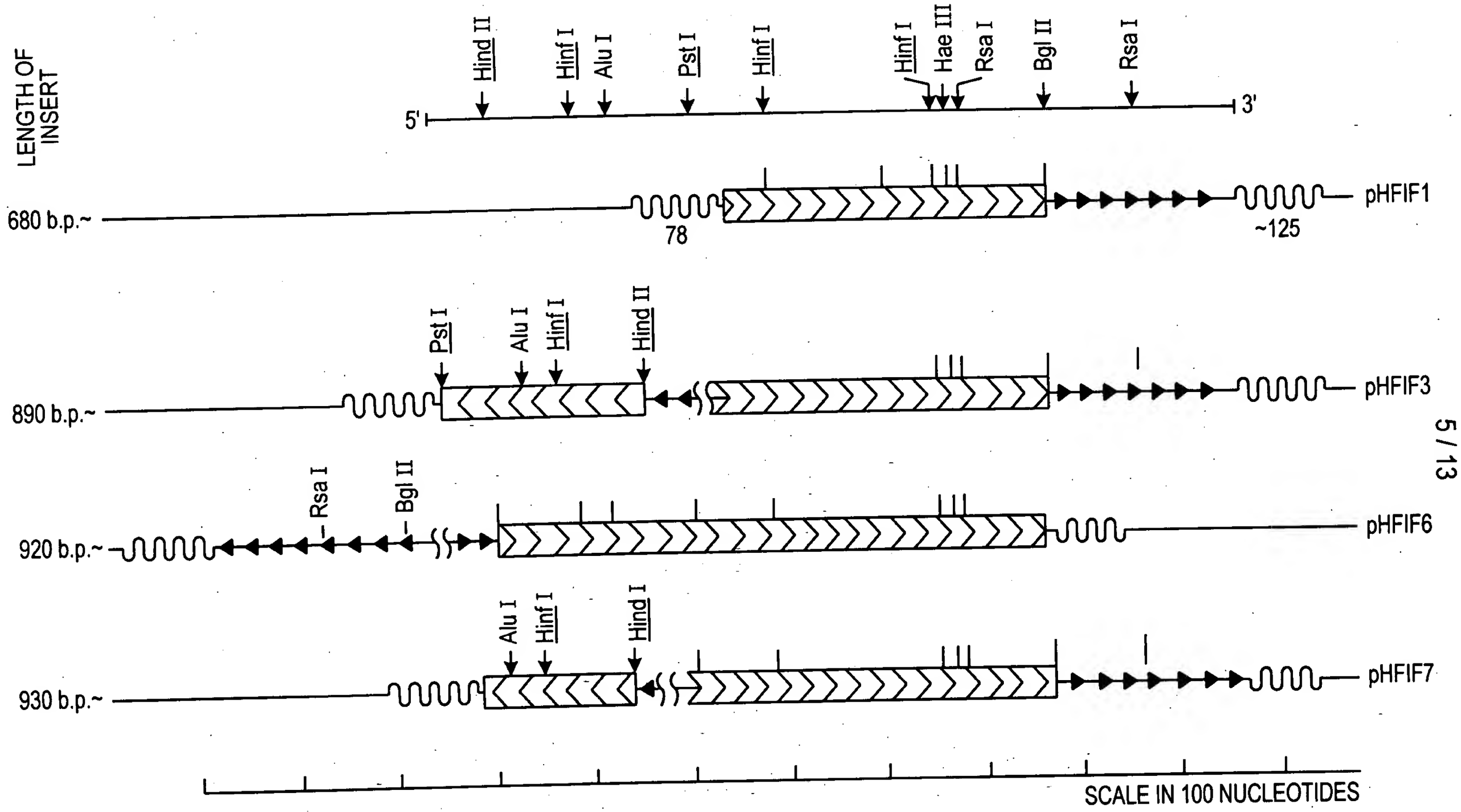


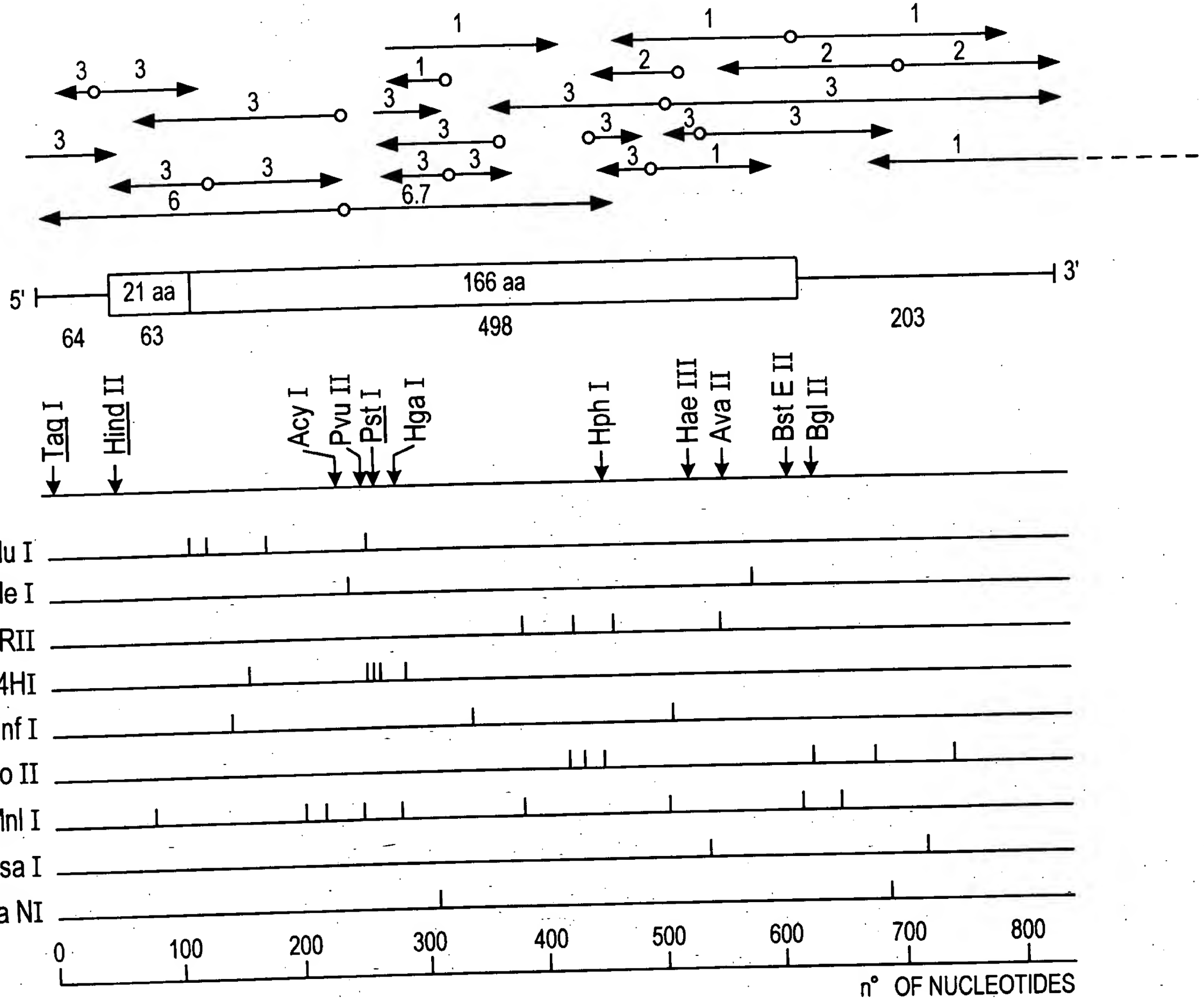
FIG. 5

AMINO ACID COMPOSITION OF HUMAN FIBROBLAST INTERFERON

AMINO ACID	COMPOSITION FROM DIRECT ANALYSIS BY TAN ET AL.	FROM DIRECT ANALYSIS BY KNIGHT ET AL.	DEDUCED FROM NUCLEOTIDE SEQUENCE	
ASP	20.6	18.9	5	17
ASN			12	
THR	8.0	6.8	7	
SER	11.7	10.5	9	
GLU	27.5	27.0	13	24
GLN			11	
PRO	4.4	2.7	1	
GLY	5.4	7.8	6	
ALA	9.3	10.0	6	
CYS	N.D.	1.7	3	
VAL	7.9	6.0	5	
MET	trace	2.9	4	
ILE	10.0	9.0	11	
LEU	26.9	20.4	24	
TYR	3.2	7.5	10	
PHE	7.7	9.4	9	
HIS	4.6	4.9	5	
LYS	12.3	11.6	11	
ARG	8.6	10.9	11	
TRP	0.0	1.0	3	
TOTAL	168	169	166	

FIG. 6

FIG. 7



Applicant: Walter C. Fiers.
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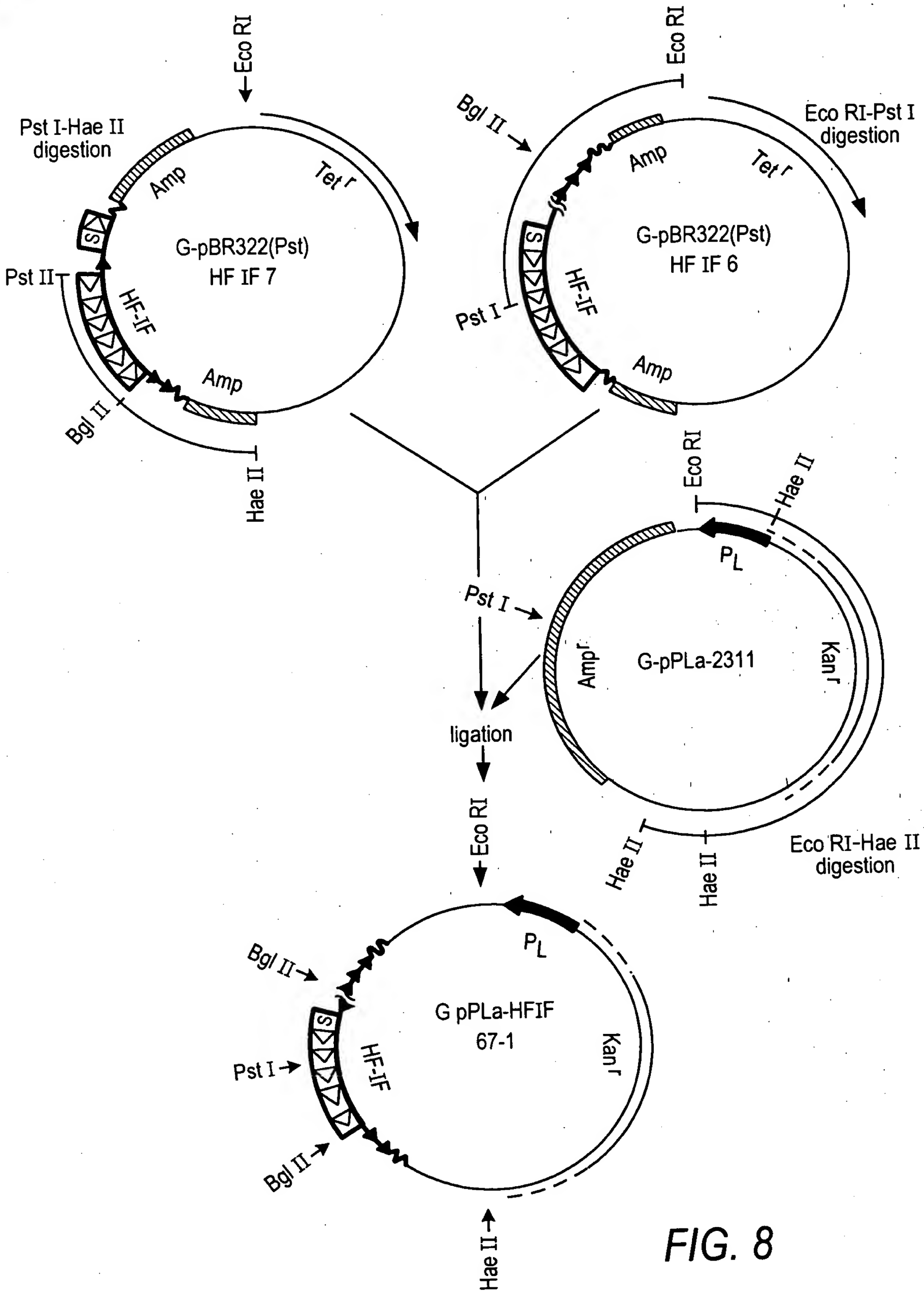

FIG. 8

FIG. 9

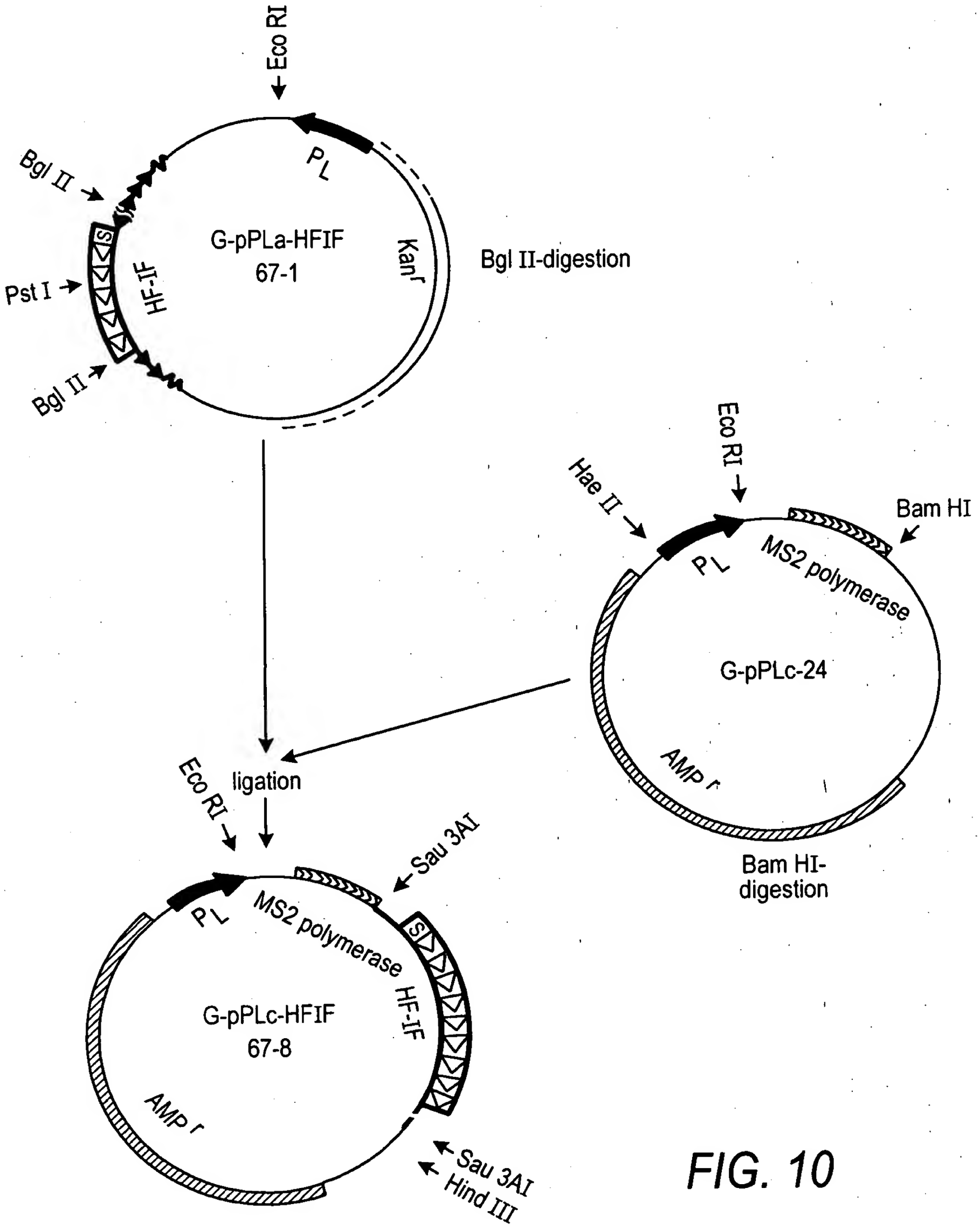

FIG. 10

FIG. 11

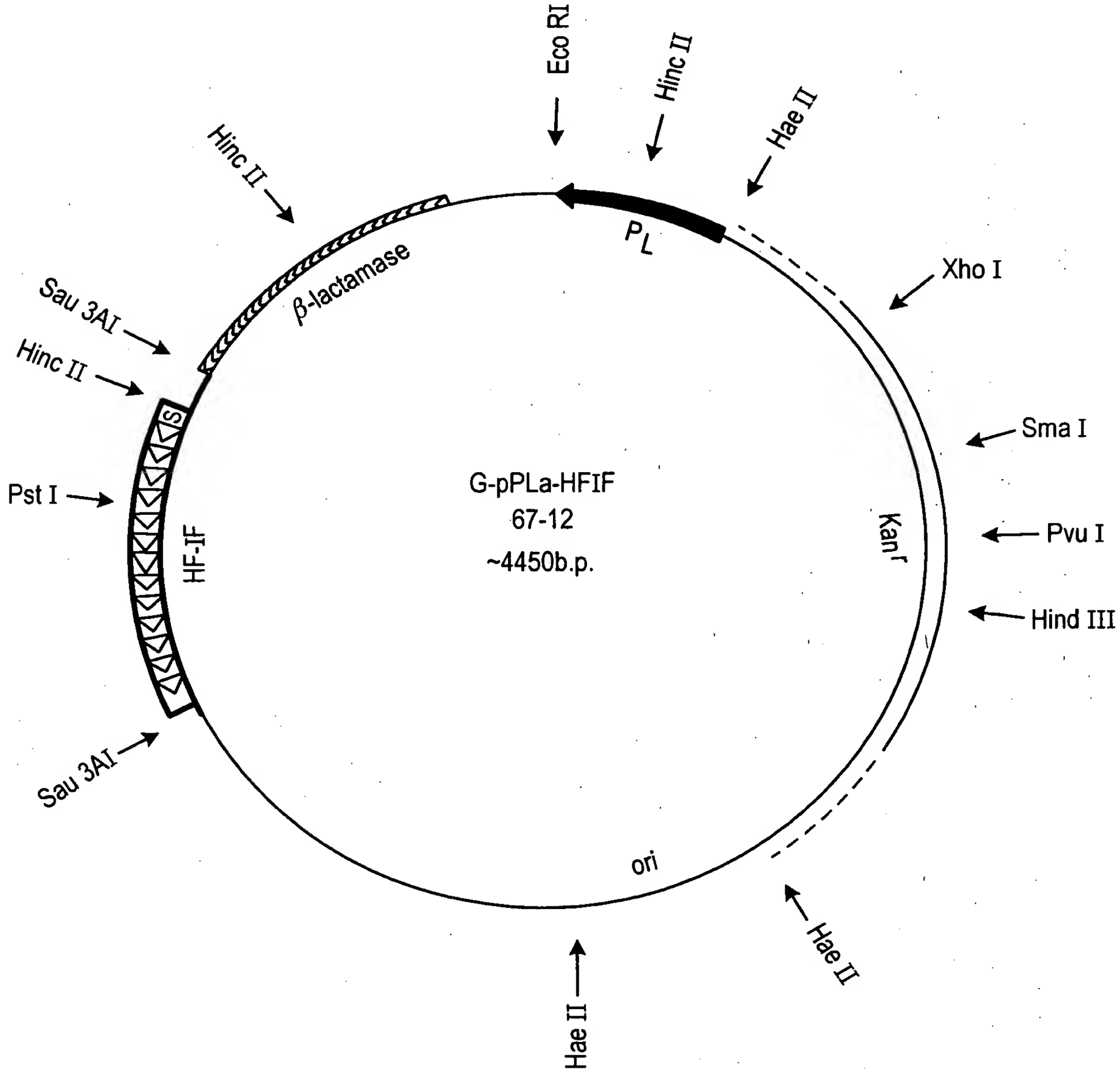

FIG. 12

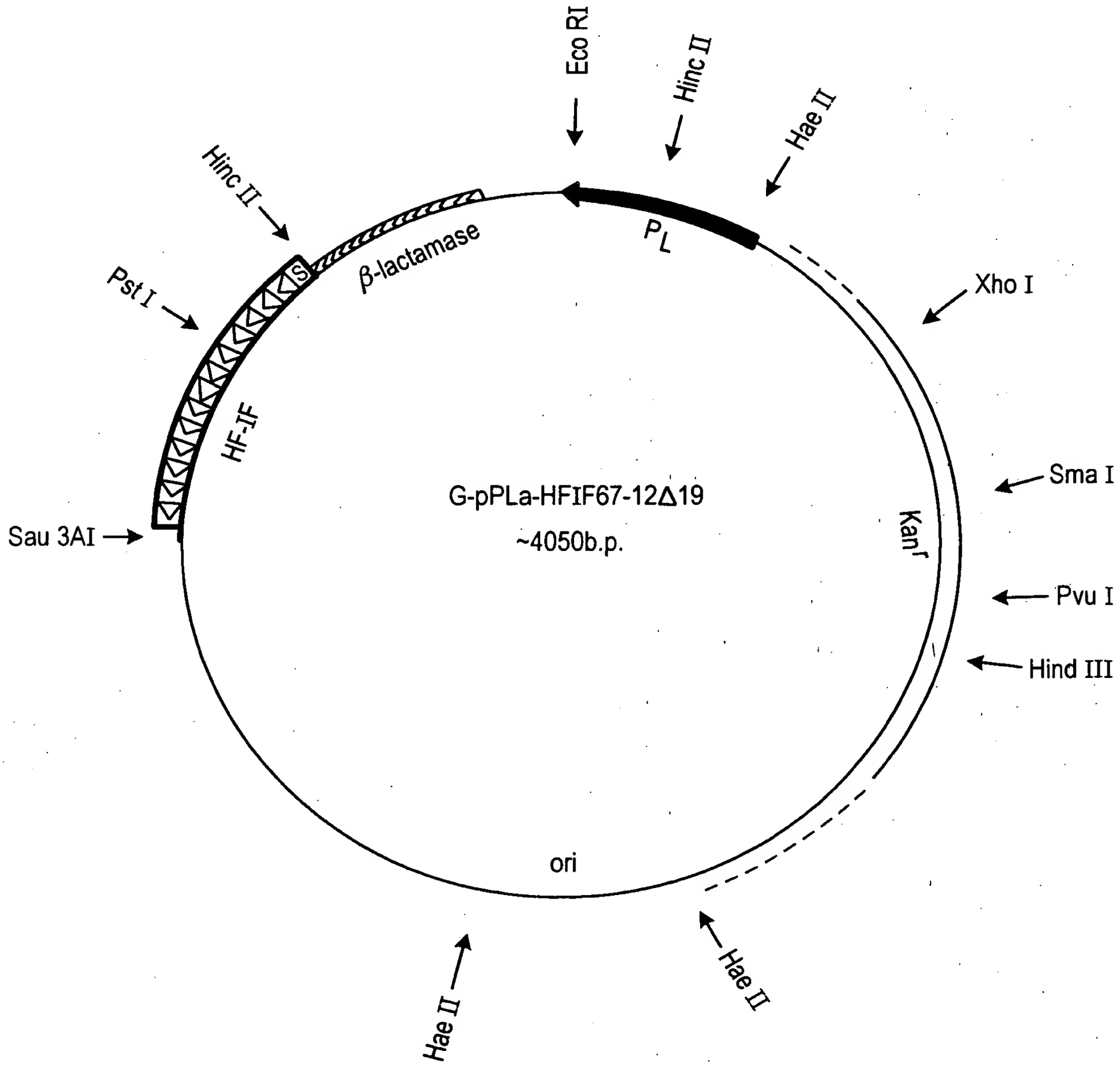

FIG. 13